

CLAIM AMENDMENTS

Please amend the claims as follows:

- 1        1. (currently amended) A structural reflective insulating material comprising:
  - 2              a first outer layer of metal reflective foil;
  - 3              an adhesive binding coating material on an inner side of said first outer
  - 4              layer of reflective foil;
  - 5              at least a first layer of foam material secured to said first layer of said
  - 6              reflective foil;
  - 7              at least one layer of wire mesh material sandwiched between at least
  - 8              said first layer of foam material and at least a second layer of foam material;
  - 9              at least a second layer of foam material;
  - 10             a coating or adhesive binding material between at least a second layer
  - 11             of foam material and at least a second inner layer of reflective foil; and
  - 12             at least a second layer of reflective foil bound to at least a second layer
  - 13             of foam material by the adhesive binding material;
  - 14             wherein the structural reflective insulating material is pliable so it is
  - 15             capable of being formed into ducts and other structural items.

- 1        2. (original) The structural reflective insulating material of claim 1 wherein at
- 2        least one of said first outer and second inner layers of reflective foil is aluminum.

- 1        10        3. (original) The structural reflective insulating material of claim 1 wherein at
- 2        least one of the first and second layers of foam material comprise polyethylene foam.

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1      3 ~~4.~~(original) The structural reflective insulating material of claim 2 wherein at  
2      least one of the first and second layers of foam material comprise polyethylene foam.

1      14 ~~5.~~(original) The structural reflective insulating material of claim 1 wherein the  
2      coating of adhesive binding material is polyurethane.

1      7 ~~6.~~(original) The structural reflective insulating material of claim 2 wherein the  
2      coating of adhesive binding material is polyurethane.

1      11 ~~7.~~(original) The structural reflective insulating material of claim 3 wherein the  
2      coating of adhesive binding material is polyurethane.

1      4 ~~8.~~(original) The structural reflective insulating material of claim 4 wherein the  
2      coating of adhesive binding material is polyurethane.

1      16 ~~9.~~(currently amended) The structural reflective insulating material of claim  
2      1 wherein the mesh material is one from a group consisting and of aluminum or and  
3      galvanized steel.

1      9 ~~10.~~(previously presented) The structural reflective insulating material of  
2      claim 2 wherein the mesh material is one from a group consisting of aluminum and  
3      galvanized steel.

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- 1    11.(previously presented)      The structural reflective insulating material of  
2    claim 3<sup>10</sup> wherein the mesh material is one from a group consisting of aluminum and  
3    galvanized steel.

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- 1    12.(previously presented)      The structural reflective insulating material of  
2    claim 4<sup>3</sup> wherein the mesh material is one from a group consisting of aluminum and  
3    galvanized steel.

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- 1    13.(previously presented)      The structural reflective insulating material of  
2    claim 5<sup>14</sup> wherein the mesh material is one from a group consisting of aluminum and  
3    galvanized steel.

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- 1    14.(previously presented)      The structural reflective insulating material of  
2    claim 6<sup>7</sup> wherein the mesh material is one from a group consisting of aluminum and  
3    galvanized steel.

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- 1    15.(previously presented)      The structural reflective insulating material of  
2    claim 7<sup>11</sup> wherein the mesh material is one from a group consisting of aluminum and  
3    galvanized steel.

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- 1    16.(previously presented)      The structural reflective insulating material of  
2    claim 8<sup>4</sup> wherein the mesh material is one from a group consisting of aluminum and  
3    galvanized steel.

- 1        17. *(withdrawn)* A method of manufacturing a pliable structural reflective
- 2        insulating material capable of being formed into ducts and other structural items
- 3        comprising the steps of:
  - 4                coating a first layer of reflective foil on one side with an adhesive
  - 5                binding material;
  - 6                placing a first layer of foam material against the coating;
  - 7                laying a mesh material on the first layer of foam material;
  - 8                placing a second layer of foam material over the mesh material;
  - 9                coating a second layer of reflective foil on one side with an
  - 10              adhesive binding material;
  - 11              placing the second layer of reflective foil with the side coated
  - 12              with an adhesive binding material against the second layer of foam
  - 13              material; and
  - 14              running the material through a heat press to bind all layers of
  - 15              material together to form an integral structural reflective insulating
  - 16              material.

1        18.(withdrawn) A method of making an air duct from a pliable structural  
2        reflective insulating material capable of being formed into ducts and other structural  
3        items comprised of a first outer layer of reflective foil; an adhesive binding coating  
4        material on an inner side of said first outer layer of reflective foil; at least a first layer  
5        of foam material secured to said first layer of said reflective foil; at least one layer of  
6        mesh material sandwiched between at least said first layer of foam material and at  
7        least a second layer of foam material; at least a second layer of foam material; a  
8        coating or adhesive binding material between the at least a second layer of foam  
9        material and the at least a second inner layer of reflective foil; and the at least a  
10      second inner layer of reflective foil, comprising the steps of;

11                  folding a piece of the structural reflective insulating material as  
12                  many times as necessary so that ends of the piece form a channel; and  
13                  securing the ends together by securing means to form a desired  
14                  configuration.

1        19.(withdrawn) The method of forming the air duct in claim 18 wherein the  
2        securing means consists of metallic tape.

1        20.(withdrawn) The method of forming the air duct in claim 18 wherein the  
2        desired configuration is substantially rectangular.

1        21.(withdrawn) The method of forming the air duct in claim 18 wherein the  
2        desired configuration is substantially circular.

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- 1        22. *(withdrawn)*    The method of forming the air duct of claim 21 wherein the
- 2        securing means further comprises an inward curved hook on one end of the material
- 3        and an outward curved hook on a second end, said curved hooks being interconnected
- 4        to lock the duct in the substantially circular configuration.

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